

FRANCE TELECOM

METHOD OF AUTOMATIC PROCESSING OF A SPEECH SIGNAL

ABSTRACT

This method of automatic processing of a speech signal comprises:

- a step of determination of a sequence (H_1^N) of probability models corresponding to a given text (TXT);
- a step of determination of a sequence (O_1^T) of acoustic strings corresponding to the diction of the said given text (TXT);
- a step of alignment between the said sequence (O_1^T) of acoustic strings and the said sequence (H_1^N) of models (H_n) ; and
- a step of determination of a confidence index (I_n) of acoustic alignment for each association between a model (H_n) and an acoustic segment.

It is characterised in that each step (80) of determination of an alignment confidence index (I_n) is carried out at least from a combination of the model probability (P_m) , *a priori* model probabilities $(P(\lambda_i))$ and the average duration of occupancy of the models $(\bar{d}(q_j^i))$.

Figure 3.